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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/709,554	11/13/2000	Duk Chin Chwa	0630-1173P	4510

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EXAMINER

KE, PENG

ART UNIT	PAPER NUMBER
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2174

DATE MAILED: 06/06/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/709,554

Applicant(s)

CHWA ET AL.

Examiner

Peng Ke

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 2.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 7, 8, 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Wistendahl (WO 97/12342).

As per claim 7, Wistendahl teaches a data information display method of a data broadcasting receiver, comprising displaying an icon for informing data information reception on the present audition television picture when the data information is received while the viewer watches the general television picture (page 12, lines 23-35). The examiner infers linked display of text or graphics as icons.

As per claim 8, Wistendahl teaches a data information display method of a data broadcasting receiver, comprising receiving a data information picture or a general television picture; selecting an icon indicating the data information picture on a screen when the data information picture is received; and displaying a simple data information picture as a translucent ground in front of the data information picture (page 12, lines 23-35). The examiner infers linked display of text or graphics as icons.

As per claim 11, Wistendahl teaches a data information display apparatus of a data broadcasting receiver including a tuner for outputting a stream and data information by tuning signals received through an antenna, a decoder for decoding the stream, a screen for displaying the decoded A/V stream after being inputted it, comprising a data receiving unit for searching the

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data information among the signals tuned by the tuner; and a PE (Presentation Engine) unit for transmitting the data information (page 19, lines 10-24) detected from the data receiving unit to the screen by parsing, summary information extracting, formatting and displaying the data information (page 12, lines 23-35).

As per claim 12, Wistendahl teaches the data information display apparatus of the data broadcasting receiver according to claim 11, wherein the PE unit comprises a parsing unit for parsing the data information outputted from the data receiving unit (page 12, lines 23-35);

a formatting unit for formatting the data information outputted from the parsing unit after being analyzed in order to display it (page 12, lines 23-35); and

a display unit for transmitting the data information formatted by the formatting unit to the screen after processing it so as to have a displayable format (page 12, lines 23-35).

As per claim 13, Wistendahl teaches the data information display apparatus of the data broadcasting receiver according to claim 12, wherein the PE unit further comprises a user interface for inputting signals to the parsing unit according to the user input signal of the viewer (page 12, lines 23-35).

15. The data information display apparatus of the data broadcasting receiver according to claim 12, wherein the parsing unit parses the data information outputted from the data receiving unit by using the HTML document, CSS Parser and Java Script.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6, 10, 14, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wistendahl (WO 97/12342) in view of Emens et al. (US 6,564,208).

As per claim 1, Wistendahl teaches a data information display method of a data broadcasting receiver, comprising: tuning signals received through an antenna and detecting whether data information is received among the signals tuned by the tuner (page 19, lines 10-24);

displaying the general television picture when the data information is not detected (page 19, lines 10-24, it is inherent that it would play the general picture while user interaction is not detected); and

parsing a HTML document among the data information when the data information is detected (page 12, lines 23-35);

displaying simple information data on a screen by using the extracted information.

However, Wistendahl fails to teach extracting summary information from the parsed HTML document;

Emens et al. teaches extracting summary information from the parsed HTML document (col 4, lines 1-14).

It would have been obvious to an artisan at the time of the invention to include Emens et al.'s teaching with Wistendahl's method in order to display multiple resulting web-pages that are related to the topic.

As per claim 2, Wistendahl in view of Emens et al. teach the data information display method of the data broadcasting receiver according to claim 1. In addition, Emens et al. teaches

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the display wherein the summary information extracting process comprises extracting title information of the each HTML page (col 4, lines 1-14);

extracting television picture size defining information of the each HTML page; and extracting title information of linked documents by extracting linked data (col 4, lines 1-14)

As per claim 3, Wistendahl in view of Emens et al. teach the data information display method of the data broadcasting receiver according to claim 1. Wistendahl teaches the display wherein the simple data information displaying process further comprises the step of displaying the simple data information at the viewer request time after storing it on a storing unit according to the viewer select (page 12, lines 23-35).

As per claim 4, Wistendahl in view of Emens et al. teach the data information display method of the data broadcasting receiver according to claim 2. In addition, Wistendahl teaches wherein the extracting step for extracting the title information of the each HTML page extracts a tag displayed as a <title> in the each HTML document on a PE (Presentation Engine) unit (page 12, lines 23-35). It would be inherent for the program to extract the title of a HTML document from the tag displayed as a <title>.

As per claim 5, Wistendahl in view of Emens et al., ~~Wistendahl~~^{KK} teaches the data ^{6/03} information display method of the data broadcasting receiver according to claim 2, wherein the extracting step for extracting the television picture size of the each HTML page extracts the size of the television picture to be displayed from the data information defined in the each HTML file on the PE unit (page 12, lines 23-35).

As per claim 6, Wistendahl in view of Emens et al. teach the data information display method of the data broadcasting receiver according to claim 2. In addition, Emens teaches

wherein the extracting step for extracting the title information of the linked documents by extracting the linked data is performed while the HTML file is parsed (col 4, lines 1-14).

As per claim 10, Wistendahl teaches the data information display method of the data broadcasting receiver according to claim 8. However Wistendahl fails to teach the method wherein the simple data information picture displays the simple information such as the title information among the data information.

Emens et al. teaches the method wherein the simple data information picture displays the simple information such as the title information among the data information (col 4, lines 1-14).

It would have been obvious to an artisan at the time of the invention to include Emens et al's teaching with Wistendahl's method in order to display multiple resulting web-pages that are related to the topic.

As per claim 14, Wistendahl teaches the data information display apparatus of the data broadcasting receiver according to claim 12. However Wistendahl fails to teach wherein the parsing unit further comprises a summary information extracting unit for extracting the abridged data information of the data information.

Emens et al. teaches the method wherein the parsing unit further comprises a summary information extracting unit for extracting the abridged data information of the data information. (col 4, lines 1-14).

It would have been obvious to an artisan at the time of the invention to include Emens et al's teaching with Wistendahl's method in order to display multiple resulting web-pages that are related to the topic.

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As per claim 16, Wistendahl in view of Emens et al. teach the data information display apparatus of the data broadcasting receiver according to claim 14. In addition, Emens teaches wherein the summary information extracting unit extracts the title information, television picture size information, related link information ect. from the HTML (col 4, lines 1-14).

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wistendahl (WO 97/12342) in view of Conrad et al. (US 6,564,208).

As per claim 9, Wistendahl teaches the data information display method of the data broadcasting receiver according to claim 8. However Wistendahl fails to teach the method wherein the simple data information picture is displayed on a present audition television picture as a font having a translucent ground in order to make a viewer watch the present audition television picture as it is without switching the picture.

Conrad et al. teaches a method wherein the simple data information picture is displayed on a present audition television picture as a font having a translucent ground in order to make a viewer watch the present audition television picture as it is without switching the picture (col 9 8-15).

It would have been obvious to an artisan at the time of the invention to include Conrad et al's teaching with Wistendahl's method in order to indicate a temporary window.

Conclusion

The following patent is cited to further show the state of the art with respect to data broadcasting system:

Decary et al. (US 2002/0091688): discloses a computer method and apparatus for extracting data from web page.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peng Ke whose telephone number is (703) 305-7615. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KRISTINE L KINCAID can be reached on (703) 308-0640. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Kristine Kincaid
KRISTINE KINCAID
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Peng Ke

June 2, 2003